

# Mineral Industry Surveys

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## COPPER IN DECEMBER 2004

The average daily mine production for December was 3% lower than that in November; mine production for the year, however, increased by 4% compared with that for 2003, according to data compiled by the U.S. Geological Survey. Average daily primary refinery production increased by 11%

in December compared with that in November, but the total for 2004 was essentially unchanged from that of the previous year. While consumption of refined copper fell sharply in December, total consumption for 2004 was up by 5.4 % compared with that of 2003 and was at the highest level since 2001.



TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2004			January - December
		2003 <sup>p</sup>	November	December	
Production:					
Primary:					
Mine, recoverable	(2)	1,120,000	108,000 <sup>r</sup>	109,000	1,160,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	662,000	56,700 <sup>r</sup>	69,300	671,000
Electrowon	(4)	591,000	47,600	50,000	584,000
Total	(4)	1,250,000	104,000 <sup>r</sup>	119,000	1,260,000
Secondary recoverable copper:					
Refineries	(5)	53,300	4,190	4,010	50,800
Ingot makers <sup>3</sup>	(5)	119,000	9,890	9,890	119,000
Brass and wire-rod mills	(5)	676,000	53,200 <sup>r</sup>	51,300	705,000
Foundries, etc. <sup>3</sup>	(5)	64,600	5,380	5,380	64,600
Smelter, total	(3)	539,000	42,300	49,900	542,000
Consumption:					
Apparent	(8)	2,450,000	204,000	NA	NA
Refined (reported)	(7)	2,300,000	195,000 <sup>r</sup>	174,000	2,420,000
Purchased copper-base scrap	(9)	1,150,000	91,700 <sup>r</sup>	89,200	1,190,000
Stocks at end of period:					
Total refined	(11)	656,000	135,000 <sup>r</sup>	134,000	XX
Blister, etc.	(11)	56,800	70,600 <sup>r</sup>	51,400	XX
Prices:					
U.S. producer cathode (cents per pound) <sup>4</sup>	(12)	85.247	146.599	150.897	133.938
Imports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(14)	27,100	--	NA	NA
Refined	(14)	882,000	77,000	NA	NA
Exports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(15)	9,860	1,270	NA	NA
Refined	(15)	93,300	2,460	NA	NA

<sup>p</sup>Preliminary. <sup>r</sup>Revised. NA Not available. XX Not applicable. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

<sup>2</sup>Numbers in parentheses refer to the significant tables where these data are located.

<sup>3</sup>Monthly data and 2003 cumulative data estimated based on 2002 monthly average.

<sup>4</sup>Source: Platts Metals Week.

<sup>5</sup>Source: U.S. Census Bureau.

<sup>6</sup>Copper content.



TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
2003: <sup>p</sup>						
December	62,000	33,400	95,300	49,600	46,900	96,500
Year	741,000	375,000	1,120,000	591,000	539,000	1,130,000
2004:						
January	58,300	32,300	90,600	48,700	43,200	91,900
February	55,000	29,600	84,600	44,700	41,100	85,800
March	61,300	31,500	92,700	48,400	45,700	94,100
April	55,400 <sup>r</sup>	31,600	87,100	47,600	40,600 <sup>r</sup>	88,200 <sup>r</sup>
May	56,800	34,100	90,900	49,100	42,900	92,000
June	59,200	33,500	92,800	49,400	44,600	94,100
July	62,000	38,100	100,000	50,700	50,900	102,000
August	62,800	36,200 <sup>r</sup>	99,000 <sup>r</sup>	49,300	51,200 <sup>r</sup>	100,000
September	62,800	36,400 <sup>r</sup>	99,200 <sup>r</sup>	49,800	50,800 <sup>r</sup>	101,000 <sup>r</sup>
October	64,200	39,400 <sup>r</sup>	104,000	48,900	56,300	105,000
November	61,400	46,500 <sup>r</sup>	108,000	47,600	62,100 <sup>r</sup>	110,000
December	63,300	45,200	109,000	50,000	60,300	110,000
January - December	723,000	435,000	1,160,000	584,000	590,000	1,170,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes production from Alaska, Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES, BY SOURCE<sup>1, 2</sup>

(Metric tons, copper content)

Period	Anode production
2003: <sup>p</sup>	
December	47,400
Total	539,000
2004:	
January	39,700
February	30,100
March	41,300
April	44,400
May	52,900
June	46,500
July	46,500
August	51,300
September	48,000
October	49,200
November	42,300
December	49,900
January - December	542,000

<sup>p</sup>Preliminary.

<sup>1</sup>Includes blister, anode and copper from primary or secondary sources.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to total shown.



TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined <sup>2</sup>	Electrowon	Total		
2003: <sup>p</sup>					
December	57,700	49,600	107,000	4,080	111,000
Year	662,000	591,000	1,250,000	53,300	1,310,000
2004:					
January	51,300	48,700	100,000	4,190	104,000
February	50,300	44,700	95,000	3,920	98,900
March	52,300	48,400	101,000	4,330	105,000
April	59,000	47,600	107,000	4,360	111,000
May	55,600	49,100	105,000	4,150	109,000
June	58,900	49,400	108,000	4,460	113,000
July	49,200	50,700	99,900	4,080	104,000
August	53,400	49,300	103,000	3,870	107,000
September	57,700	49,800	108,000	4,660	112,000
October	57,400	48,900	106,000	4,540	111,000
November	56,700 <sup>r</sup>	47,600	104,000	4,190	109,000 <sup>r</sup>
December	69,300	50,000	119,000	4,010	123,000
January - December	671,000	584,000	1,260,000	50,800	1,310,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>From domestic and foreign source materials.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

Period	Refineries <sup>2</sup>		Ingot makers <sup>3</sup>		Brass and wire-rod mills		Foundries, etc. <sup>3</sup>		Total <sup>4</sup>
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2003: <sup>p</sup>									
December	1,340	2,740	2,340	7,550	51,900	2,880	2,020	3,360	74,100
Year	16,000	37,300	28,100	90,600	644,000 <sup>r</sup>	31,800 <sup>r</sup>	24,300	40,300	912,000 <sup>r</sup>
2004:									
January	1,340	2,860	2,340	7,550	57,400	3,610	2,020	3,360	80,500
February	1,340	2,590	2,340	7,550	56,600	3,900	2,020	3,360	79,700
March	1,340	3,000	2,340	7,550	60,100	3,650	2,020	3,360	83,400
April	1,340	3,020	2,340	7,550	60,500	2,900	2,020	3,360	83,000
May	1,340	2,820	2,340	7,550	54,600	3,090	2,020	3,360	77,100
June	1,340	3,120	2,340	7,550	55,900	2,910	2,020	3,360	78,500
July	1,340	2,740	2,340	7,550	56,400	2,440	2,020	3,360	78,200
August	1,340	2,540	2,340	7,550	56,800	2,450	2,020	3,360	78,400
September	1,340	3,320	2,340	7,550	55,200	2,690	2,020	3,360	77,800
October	1,340	3,210	2,340	7,550	56,800	2,670	2,020	3,360	79,300
November	1,340	2,850	2,340	7,550	50,500 <sup>r</sup>	2,670	2,020	3,360	72,700 <sup>r</sup>
December	1,340	2,680	2,340	7,550	48,000	3,300	2,020	3,360	70,600
January - December	16,000	34,700	28,100	90,600	669,000	36,300	24,300	40,300	939,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Electrolytically refined and fire-refined scrap based on source of material at smelter level.

<sup>3</sup>Monthly data and 2003 cumulative data estimated based on 2002 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2002 data of 3,100 tons per month from new scrap and 2,020 tons per month of copper recovered from scrap other than copper-base.



TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2003: <sup>p</sup>						
December	106,000	131,000	106,000	134,000	53,800	22,200
Year	1,360,000	1,630,000	1,360,000	1,640,000	XX	XX
2004:						
January	115,000	158,000	116,000	151,000	52,400	29,400
February	117,000	146,000	119,000	147,000	52,200	28,500
March	124,000	158,000	124,000	168,000	51,300	19,100
April	125,000	159,000	124,000	160,000	52,400	18,300
May	115,000	160,000	116,000	148,000	51,400	29,600
June	118,000	143,000	117,000	148,000	52,700	23,900
July	118,000	143,000	117,000	144,000	54,100	23,900
August	119,000	162,000	118,000	156,000	54,700	29,500
September	113,000	154,000	113,000	148,000	54,500	35,600 <sup>r</sup>
October	120,000	135,000	120,000	148,000 <sup>r</sup>	54,400	23,000 <sup>r</sup>
November	107,000 <sup>r</sup>	148,000	108,000 <sup>r</sup>	144,000 <sup>r</sup>	52,900 <sup>r</sup>	26,600 <sup>r</sup>
December	100,000	134,000	97,600	130,000	55,300	31,200
January - December	1,390,000	1,800,000	1,390,000	1,790,000	XX	XX

<sup>p</sup>Preliminary. <sup>r</sup>Revised. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2003: <sup>p</sup>				
December	46,900	128,000	5,630	181,000
Year	587,000	1,640,000	67,600	2,300,000
2004:				
January	47,900	156,000	5,630	210,000
February	49,600	146,000	5,630	201,000
March	54,300	158,000	5,630	218,000
April	52,400	158,000	5,630	216,000
May	45,300	156,000	5,630	207,000
June	46,000	136,000	5,630	188,000
July	50,900	142,000	5,630	199,000
August	48,500	165,000	5,630	219,000
September	46,100	151,000 <sup>r</sup>	5,630	203,000 <sup>r</sup>
October	48,200	136,000 <sup>r</sup>	5,630	190,000 <sup>r</sup>
November:	44,700 <sup>r</sup>	145,000 <sup>r</sup>	5,630	195,000 <sup>r</sup>
December:				
Cathodes	27,300	129,000	818	157,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	1,720	--	2,230	3,960
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	10,200	W	2,580	12,800
Total	39,200	129,000	5,630	174,000
January - December	573,000	1,780,000	67,600	2,420,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data included with "Cathodes." -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2002 annual data.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included with "Billets and others."



TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

Period	Refined copper production	Copper in old scrap <sup>2</sup>	Refined general imports <sup>3</sup>	Refined exports <sup>3</sup>	Stock change during period	Apparent consumption
2003: <sup>P</sup>						
January - November	1,150,000 <sup>r</sup>	206,000 <sup>r</sup>	630,000	71,000	(370,000) <sup>r</sup>	2,280,000 <sup>r</sup>
November	96,700	18,100	63,300	8,470	(24,400)	194,000
December	107,000	18,600	57,200	22,300	(11,000)	172,000
Year	1,250,000	224,000	687,000	93,300	(381,000)	2,450,000
2004:						
January	100,000	19,400	43,700	11,000	(77,100)	229,000
February	95,000	19,400	45,400	18,500	(63,600)	205,000
March	101,000	19,600	62,500	23,900	(94,900)	254,000
April	107,000	18,900	54,100	28,400	(90,000)	241,000
May	105,000	18,800	56,300	3,700	(36,600)	213,000
June	108,000	19,000	40,400	2,720	(58,900)	224,000
July	99,900	18,100	75,600	5,470	(22,800)	211,000
August	103,000	17,900	65,500	9,350	(33,200)	210,000
September	108,000	18,900	73,800	570	(23,100) <sup>r</sup>	223,000 <sup>r</sup>
October	106,000	18,800	60,200	3,890	(12,400) <sup>r</sup>	194,000
November	104,000	18,500	75,300	2,460	(7,870) <sup>r</sup>	204,000
December	119,000	18,900	NA	NA	(749)	NA
January - November	1,140,000	207,000	653,000	110,000	(520,000)	2,410,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised. NA Not available.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2002 data.

<sup>3</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers <sup>2</sup>		Brass and wire-rod mills <sup>3</sup>		Foundries, etc. <sup>2</sup>		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2003: <sup>P</sup>									
December	1,350	2,760	3,490	10,700	65,200	2,980	3,530	3,730	93,700
Year	16,200	37,600	41,900	128,000	808,000 <sup>r</sup>	32,600	42,300	44,800	1,150,000
2004:									
January	1,350	2,880	3,490	10,700	71,900	3,730	3,530	3,730	101,000
February	1,350	2,610	3,490	10,700	70,800	4,020	3,530	3,730	100,000
March	1,350	3,020	3,490	10,700	75,900	3,760	3,530	3,730	105,000
April	1,350	3,050	3,490	10,700	75,400	2,930	3,530	3,730	104,000
May	1,350	2,770	3,490	10,700	68,500	3,200	3,530	3,730	97,300
June	1,350	3,150	3,490	10,700	70,900	3,040	3,530	3,730	99,800
July	1,350	2,760	3,490	10,700	71,100	2,620	3,530	3,730	99,300
August	1,350	2,550	3,490	10,700	72,600	2,580	3,530	3,730	101,000
September	1,350	3,290	3,490	10,700	70,300	2,820	3,530	3,730	99,200
October	1,350	3,230	3,490	10,700	71,500	2,810	3,530	3,730	100,000
November	1,350	2,890	3,490	10,700	63,300 <sup>r</sup>	2,780	3,530	3,730	91,700 <sup>r</sup>
December	1,350	2,700	3,490	10,700	60,300	3,440	3,530	3,730	89,200
January - December	16,200	34,900	41,900	128,000	843,000	37,700	42,300	44,800	1,190,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Monthly data and 2003 cumulative data estimated from 2002 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.



TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1,2</sup>

(Metric tons, gross weight)

Scrap type and processor	2003 <sup>p</sup>	2004			
		October	November	December	January - December
No. 1 wire and heavy:					
Smelters and refiners	67,200	5,610	5,610	5,610	67,400
Brass and wire-rod mills	377,000	33,500	30,400 <sup>r</sup>	29,600	394,000
No. 2 mixed heavy and light:					
Smelters and refiners	29,500	2,550	2,210	2,020	26,700
Brass and wire-rod mills	5,750	327	386	433	6,250
Total unalloyed scrap:					
Smelters and refiners	96,800	8,160	7,820	7,630	94,100
Brass and wire-rod mills	383,000	33,800	30,700 <sup>r</sup>	30,100	401,000
Red brass: <sup>3</sup>					
All plants	42,600	3,810	3,640	3,390	44,800
Leaded yellow brass:					
All plants	306,000	27,300	22,500	23,200	323,000
Yellow and low brass:					
All plants	49,400	3,330	3,310	3,270	40,000
Cartridge cases and brass:					
All plants	79,400	7,530	7,320	5,790	85,400
Auto radiators:					
Smelters and refiners	31,400	2,610	2,610	2,610	31,400
Bronzes:					
Smelters and refiners	8,070	672	672	672	8,070
Brass mills	5,390	486	541	481	6,350
Nickel-copper alloys:					
All plants	16,400	1,490	1,410	978	20,000
Low grade and residues:					
Smelters and refiners	10,600	880	880	880	10,600
Other alloy scrap: <sup>4</sup>					
Smelters and refiners	3,010	251	251	251	3,010
Brass mills	4,110	332	332	332	4,860
Total alloyed scrap:					
Smelters and refiners	98,000	8,170	8,170	8,170	98,000
Brass mills	458,000	40,500	35,300	33,700	480,000
Total scrap:					
Smelters and refiners	195,000	16,300	16,000	15,800	192,000
Brass and wire-rod mills	841,000	74,300	66,100 <sup>r</sup>	63,700	880,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 7,240 tons of scrap per month based on 2002 annual data; monthly data include estimates of about 14,200 tons of scrap per month consumed by ingot makers.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>Includes composition turnings, silicon bronze, zincy bronze, railroad car boxes, cocks and faucets, gilding metal, and commercial bronze.

<sup>4</sup>Includes refinery brass, beryllium copper, phosphor copper, and aluminum bronze.



TABLE 11  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

Period	Crude copper <sup>2</sup>	Refined copper						Total refined
		Refineries <sup>3</sup>	Wire-rod mills <sup>3</sup>	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex <sup>5</sup>	LME <sup>6</sup>	
2003: <sup>p</sup>								
December	56,800	12,100	29,700	20,200	3,600	255,000	335,000	656,000
2004:								
January	49,900	9,840	22,500	12,500	3,600	239,000	291,000	578,000
February	48,100	10,100	25,200	16,300	3,600	219,000	240,000	515,000
March	43,200	10,800	30,700	14,200	3,600	193,000	167,000	420,000
April	62,900	8,510	19,100	16,700	3,600	156,000	126,000	330,000
May	69,100	11,100	27,500	18,000	3,600	120,000	114,000	293,000
June	60,600	5,680	26,600	19,600	3,600	86,300	92,800	234,000
July	62,200	6,780	29,700	19,100	3,600	71,700	80,800	212,000
August	65,700	8,640	21,400	22,600	3,600	55,900	66,400	179,000
September	71,600	7,830	15,200 <sup>r</sup>	24,900	3,600	44,900	59,000	155,000
October	72,200	9,210	25,200 <sup>r</sup>	20,300	3,600	41,300	43,400	143,000 <sup>r</sup>
November	70,600 <sup>r</sup>	13,100	24,300 <sup>r</sup>	18,200 <sup>r</sup>	3,600	38,500	37,500	135,000 <sup>r</sup>
December	51,400	10,300	20,300	21,500	3,600	43,700	35,000	134,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Copper content of blister and other materials in transit and in process of refining.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on reported and 2002 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>Commodity Exchange Inc., New York.

<sup>6</sup>London Metal Exchange Ltd., U.S. warehouses.

TABLE 12  
AVERAGE PRICE OF COPPER IN THE UNITED STATES  
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price cathode <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
2003:			
December	103.917	99.731	99.831
Year	85.247	81.050	80.684
2004:			
January	114.336	110.150	109.911
February	129.302	125.116	125.144
March	138.323	134.137	136.439
April	133.646	128.481	133.694
May	126.097	120.968	123.960
June	126.008	120.862	121.832
July	132.078	126.812	127.342
August	133.015	127.752	129.064
September	136.680	131.414	131.283
October	140.273	135.007	136.575
November	146.599	141.333	141.620
December	150.897	145.631	142.633
January - December	133.938	128.972	129.958

<sup>1</sup>Listed as "U.S. producer cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Sources: Platts Metals Week and American Metal Market.



TABLE 13  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 Scrap	Red brass turnings and borings
2003:				
December	98.76	89.69	67.00	46.00
Year	80.17	70.42	52.70	38.65
2004:				
January	108.80	98.38	72.60	50.20
February	124.08	112.66	75.84	52.37
March	132.89	118.57	91.00	60.30
April	127.30	107.18	90.91	58.82
May	119.65	96.28	89.00	55.00
June	119.82	96.55	89.00	55.00
July	125.52	101.33	89.00	55.00
August	126.64	101.73	89.00	55.00
September	127.29	106.19	89.00	55.00
October	130.43	113.38	89.00	55.00
November	135.40	118.15	89.00	55.00
December	139.14	121.00	89.00	55.00
January - December	126.41	107.62	86.86	55.14

Source: American Metal Market.



TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2004			2004			2004			2004		
	January -			January -			January -			January -		
	2003	November	November	2003	November	November	2003	November	November	2003	November	November
Brazil	--	--	--	--	--	--	(2)	--	--	11,800	6,010	12,600
Canada	86	--	516	187	22	98	83,600	7,940	70,600	218,000	28,300	251,000
Chile	4,940	--	--	--	--	--	45,200	8,610	45,300	348,000	19,900	296,000
Germany	--	--	--	59	--	--	--	--	--	8,530	956	20,800
Japan	--	--	--	--	(2)	(2)	(2)	--	19	5,020	329	4,140
Mexico	22,000	--	22,400	501	--	189	10,200	819	8,250	21,600	3,980	17,800
Namibia	--	--	--	--	--	--	17,700	--	7,710	--	--	--
Peru	--	--	--	--	--	--	5	--	10,200	258,000	11,800	147,000
Russia	--	--	--	--	--	--	--	--	--	--	5,720	5,920
Taiwan	--	--	--	699	107	1,140	--	--	--	--	--	(2)
United Kingdom	--	--	--	--	--	--	2	--	3	10,100	--	27
Other	--	--	--	54	--	34	23	--	--	1,220	2	172
Total	27,100	--	22,900	1,500	129	1,460	157,000	17,400	142,000	882,000	77,000	756,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.



TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2004			2,004			2004			2004		
	January -			January -			January -			January -		
	2003	November	November	2003	November	November	2003	November	November	2003	November	November
Belgium	87	--	6	39	--	6	--	247	1,000	2	--	998
Canada	7,540	1,010	17,600	6,740	1,380	17,400	17,200	1,020	21,200	2,100	148	1,770
China	1,380	145	2,280	153	--	52	567	--	307	71,600	507	19,800
Costa Rica	--	--	--	3	--	--	1	--	--	254	--	1,300
Germany	--	--	32	(2)	4	23	441	668	1,780	185	--	64
Hong Kong	27	14	229	74	--	12	2,650	180	3,150	52	--	7
India	--	--	56	175	--	20	118	41	164	1,370	184	2,710
Italy	--	--	--	5	--	--	219	--	122	81	1	21,100
Japan	107	--	2,510	40	--	120	85	--	705	251	--	66
Korea, Republic of	--	--	23	12	--	6	788	3,060	8,770	742	10	3,250
Mexico	224	--	115	8,090	130	2,560	252	7	124	12,200	1,540	19,200
Netherlands	--	--	--	1	--	37	--	--	--	11	7	1,270
Saudi Arabia	--	--	--	--	--	--	--	--	--	28	--	7,840
Singapore	6	--	--	4	--	18	478	45	614	71	--	39
Taiwan	11	--	96	--	--	5	1,270	100	1,200	3,630	23	28,600
United Arab Emirates	4	--	5	4	--	5	503	--	669	4	--	--
United Kingdom	41	2	29	77	2	87	430	32	468	42	15	588
Other	438 <sup>r</sup>	103	507	218 <sup>r</sup>	--	203	1,120 <sup>r</sup>	65	2,070	738 <sup>r</sup>	19	1,310
Total	9,860	1,270	23,500	15,600	1,520	20,500	26,100	5,460	42,400	93,300	2,460	110,000

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.



TABLE 16  
U.S. COPPER SCRAP TRADE<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Imports						Exports					
	Unalloyed			Alloyed			Unalloyed			Alloyed		
	2004			2004			2004			2004		
	January -			January -			January -			January -		
	2003	November	November	2003	November	November	2003	November	November	2003	November	November
Belgium	--	--	--	46	--	--	2,630	534	3,660	6,010	653	7,390
Canada	4,130	777	5,770	37,300	3,740	40,500	21,200	2,620	30,800	17,500	1,490	14,000
China	--	--	1	824	82	426	225,000	20,800	202,000	245,000	18,400	216,000
Costa Rica	921	113	1,270	404	42	469	--	--	--	6	--	--
Dominican Republic	1,100	13	446	766	40	380	--	--	--	4	--	--
Germany	19	--	45	5,250	--	1,120	7,900	649	7,570	7,680	958	12,500
Guatemala	474	--	271	869	101	897	--	--	--	--	--	--
Hong Kong	--	--	(2)	--	--	--	2,530	122	3,790	9,600	832	10,000
India	--	--	--	18	--	--	5,550	100	4,160	45,400	2,300	42,200
Japan	77	5	62	261	42	119	6,790	471	7,280	9,110	588	8,920
Korea, Republic of	--	--	--	21	7	7	25,400	1,400	21,400	15,500	1,150	15,300
Malaysia	--	--	--	272	--	231	3,620	38	496	88	9	53
Mexico	9,950	742	9,510	18,700	1,690	20,400	3,200	206	4,280	808	165	1,500
Taiwan	--	--	--	462	13	1,450	8,500	667	10,000	6,860	662	12,300
United Kingdom	278	103	536	781	36	956	97	--	34	857	752	4,300
Other	2,660	431	3,420	5,020	461	4,730	2,940	258	2,260	9,070	644	10,600
Total	19,600	2,180	21,300	71,000	6,250	71,600	316,000	27,900	298,000	373,000	28,600	355,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.